ANNALS OF MATHEMATICS

(FOUNDED BY ORMOND STONE)

SOLOMON LEFSCHETZ

JOHN VON NEUMANN

WITH THE COÖPERATION OF THE

DEPARTMENT OF MATHEMATICS OF PRINCETON UNIVERSITY

AND

THE SCHOOL OF MATHEMATICS OF THE INSTITUTE FOR ADVANCED STUDY

AND

EMIL ARTIN

FRÉDÉRIC BOHNENBLUST NORMAN LEVINSON¹ OTTO SZASZ S. CHERN SAUNDERS MACLANE R. L. WILDER¹

S. EILENBERG

K. O. FRIEDRICHS1 GARRETT BIRKHOFF NATHAN JACOBSON

E. J. McShane

PAUL A. SMITH

N. E. STEENBOD

(1 Representing the American Mathematical Society)

SECOND SERIES, VOL. 47

PUBLISHED QUARTERLY

MOUNT ROYAL AND GUILFORD AVENUES BALTIMORE 2, MD.

> BY THE PRINCETON UNIVERSITY PRESS PRINCETON, N. J.

COPYRIGHT, 1946, BY PRINCETON UNIVERSITY PRESS

ANNALS OF MATERIALIOS

Solomon Lergenera

DESCRIPTION OF MATERIAL PROPERTY OF PRINCIPON CANADASSIT

THE SCHOOL OF MATHEMALTICS OF THE ASSISTING TO

Vionanil ysunner Francisc Donwertation Names of Leviscos?

INDEX

Arens, R. F. A topology for spaces of transformations	. 480
Aronszajn, N. and Hardy, G. H. Errata in the paper Properties of a class	
of double integrals, vol. 46	
BING, R. H. Sets cutting the plane	
Boas, R. P., Jr. Fundamental sets of entire functions	
Bochner, S. Formal Lie groups	
BOCHNER, S. Linear partial differential equations with constant coeffi	-01/
cients	
BOCHNER, S., AND MONTGOMERY, D. Locally compact groups of differentiable transformations	
CHERN, S. Characteristic classes of Hermitian manifolds	. 85
Dubisch, R. Composition of quadratic forms	
EBERLEIN, W. F. Closure, convexity and linearity in Banach spaces	
EINSTEIN, A., AND STRAUS, E. G. A generalization of the relativistic	
theory of gravitation. II	
Erdös, P. On the distribution function of additive functions	
Fan, K. On positive definite sequences	
Feller, W. The law of the iterated logarithm for identically distributed	
random variables	631
FREUDENTHAL, H. Der einfluss der fundamentalgruppe auf die Bettischen	
gruppen	274
FREUDENTHAL, H. Errata in paper Die topologie der lieschen gruppen als	
algebraisches phanomen, vol. 42	
Garrison, G. N. Note on invariant complexes of a quasigroup	
GERCNIMUS, J. On the trigonometric moment problem	
GOTTSCHALK, W. H. Almost periodic points with respect to transforma-	
tion semi-groups	
Hamburger, H. On a class of Hermitian transformations containing self-	
adjoint differential operators	667
HARDY, G. H., AND ARONSZAJN, N. Errata in the paper Properties of a class	
of double integrals, vol. 46	166
HEINS, M., AND MORSE, M. Topological methods in the theory of func-	
tions of a single complex variable. III	233
HEWITT, E. On two problems of Urysohn	
Hochschild, G. On the cohomology theory for associative algebras	
Hua, L. On the theory of Fuchsian functions of several variables	
KAC, M. On the distribution of values of sums of the type $\sum f(2^k t)$	33
modular group and the characters of binary modular congruence	
groups. I	317

iv INDEX

Kloosterman, H. D. The behaviour of general theta functions under the modular group and the characters of binary modular congruence	
groups. II	370
symmetric nose moving through an ideal fluid	704
MAYER, W. Singular chain intersection	767
McKinsey, J. C. C., and Tarski, A. On closed elements in closure alge-	
bras	124
MONTGOMERY, D., AND BOCHNER, S. Locally compact groups of differenti-	cor
able transformations	9.4
	233
Myers, S. B. Equicontinuous sets of mappings	496
NESBITT, C. J., AND THRALL, R. M. Some ring theorems with applications	
to modular representations	551
NEUMANN, J. v., AND SCHATTEN, R. The cross-space of linear transforma-	200
tions. II	
ORE, O. Mappings of closure relations	
PINNEY, E. An integral equation occurring in potential theory	
RICKART, C. E. Banach algebras with an adjoint operation	
ROTHE, E. H. Gradient mappings in Hilbert space	
Santaló, L. A. Convex regions on the <i>n</i> -dimensional spherical surface 4	
	73
politically 10, 1110 1120 and 11, 0. 1.	ene
tions. II	
SMILEY, M. F., AND WILCOX, L. R. Correction in the paper Metric lattices,	00
vol. 40	291
	991
of gravitation. II	
	213
Tarski, A., and McKinsey, J. C. C. On closed elements in closure alge-	110
bras	22
Tarski, A. A remark on functionally free algebras	
THRALL, R. M., AND NESBITT, C. J. Some ring theorems with applications	.00
to modular representations	551
TAUB, A. H. Interaction of progressive rarefraction waves	
WHITEHEAD, G. W. On products in homotopy groups	
WHITEHEAD, G. W. On families of continuous vector fields over spheres 7	
WHITEHEAD, J. H. C. Note on a previous paper entitled On adding relations to homolopy groups, vol. 42	
WILCOX, L. R., AND SMILEY, M. F. Correction in the paper Metric lattices,	00
vol. 40.	
	51